Casualty Loss Reserve Seminar (CLRS)

Current Events in the
California Workers' Compensation Industry

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California Workers' Compensation Institute
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CWCI: Background

Established in 1964;

Private, nonprofit organization of insurers representing approximately 80% of premium dollars and self-insured employers;

Dedicated to improving the California workers' compensation system through four primary functions:

- Research
- Education
- Information
- Representation

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Exhibit

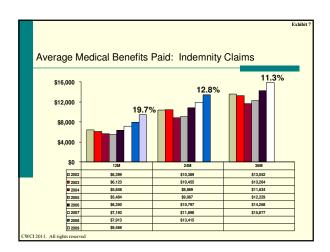
Employers Insurance

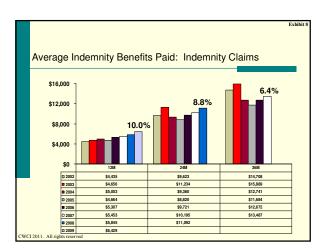
Agenda

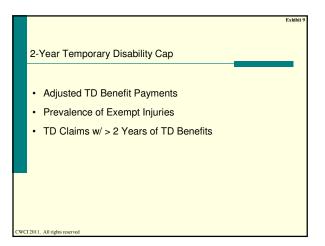
Medical & Indemnity Trend Analysis Medical Treatment Utilization Case-Mix Adjustment Analysis

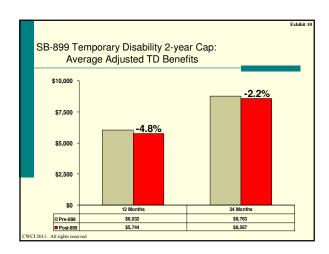
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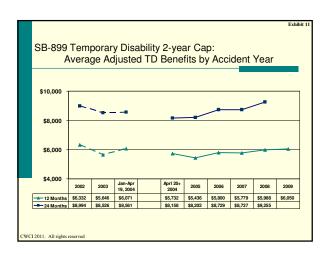
Benefit Development · Data and Methods · Medical and Indemnity Benefit Trends • Medical Benefit Components · Medical Treatment RX/DME · Medical/Legal Medical Cost Containment · Pharmaceutical Utilization Case-Mix Adjusted Medical Trend Analysis CWCI 2011. All rights reserved Benefit Development Data and Methods • Industry claim information system (ICIS V12B) • Policy, claim, benefit and medical service detail • 2M claims with DOI between Jan 2002 and Sept 2010 • Medical benefits and medical bill review transactions through Dec 2010. Benefit Development Medical • Indemnity Benefit Trends (2-yr cap)

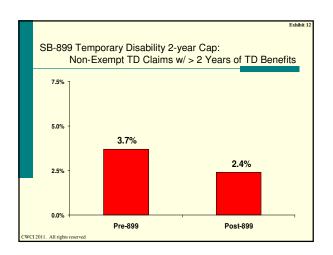


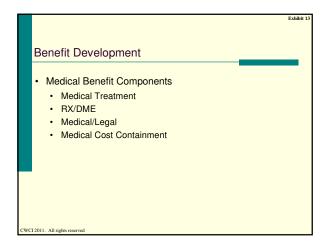


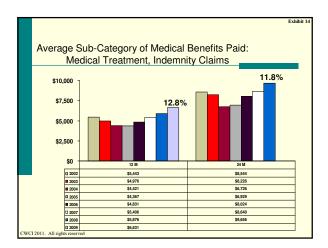


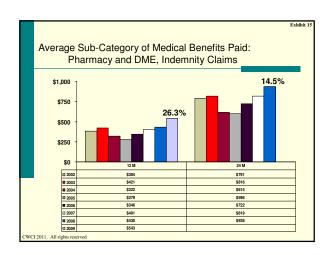


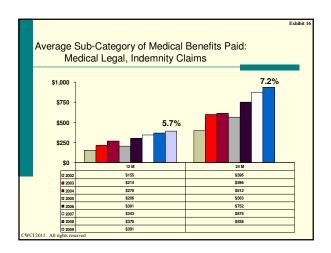


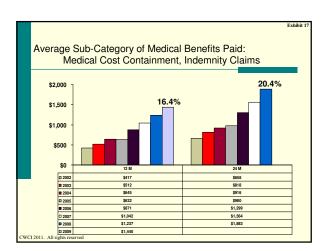


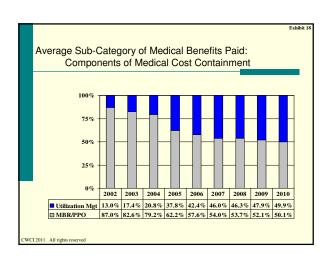


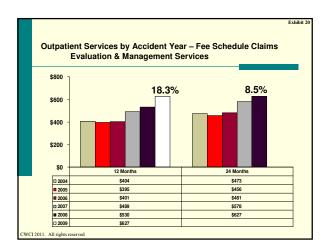


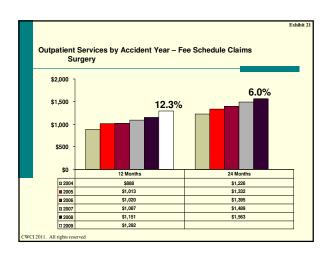


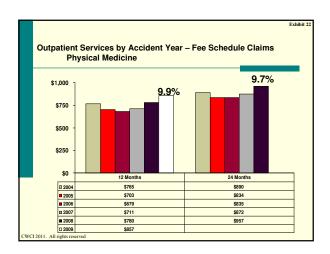


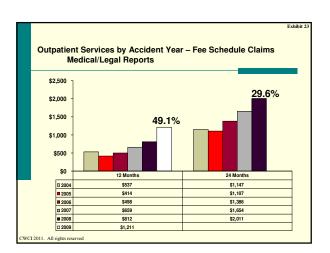


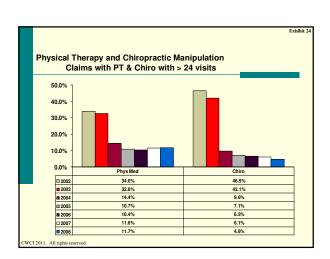






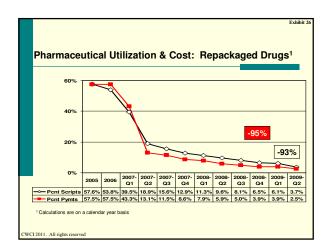


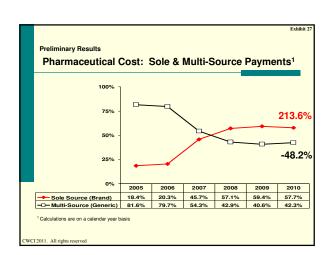


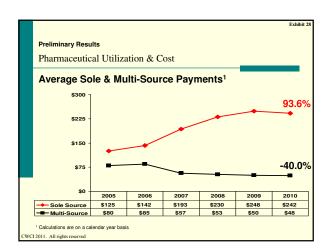


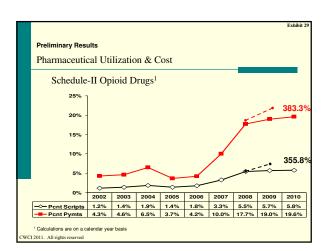
Pharmaceutical Utilization and Cost

Changing Role of Rx in Workers' Compensation
Sole Source (Brand) and Multi-Source (Generic)
Pain Management and the Compounds and Opioids
Federal and State Prescription Drug Abuse and Pain Management Activity











Case-Mix-Adjusted Factor Analysis of Medical Trends Objectives · Factors underlying rising medical costs? Injured worker characteristics
 Employer and Payor characteristics
 Claim Characteristics • Factor analysis isolates: - Weight (isolated cost contribution)
- Slope (cost increasing or decreasing over the trend
- Prevalence (occurring more or less often) - Overall impact (interaction of power and prevalence) • Variables inside & outside current controls/policies Benefit Development (Preliminary Results) · Data and Methods ICIS V12B: 1.7M Claims DOI 1Q/04 – 3Q/09 Policy And Claim Characteristics Medical Bill Review Detail Injury Characteristics Co-morbidities Rx Utilization Benefit Development (Preliminary Results) · Regression Models on 12-month and 24-month unadjusted and case-mix-adjusted medical benefit trend · Analysis of contributing factors Analysis

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С	Case-Mix-Ad	djusted Fact	tor Analysis	of Medical	Trends	
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Independent and Dependent Variables						
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L	CLAIM ID	GENDER	CAUSE OF INJ	EE STATUS	DxCAT GROUP	
	POLICY ID	TENURE	NOI	CAT CLM FLG	INPT HSP FLG	
Γ	DOI	ER ZIP CODE	BODY PART	AWW	PRIMARY ICD9	
Γ	DOB	EE ZIP CODE	ER NOTIF DT	EE CLASS	SECONDICD9	
ľ	DOH	COUNTY	CAR NOTIF DT	RESOL DT	TERT ICD9	
Γ	DOD	REGION	CLOSED DT	SURG IND	TD DAYS	
ľ	POLICY YR	GOV CLASS	REOPEN DT	IND MED FLG	MED @12M	
T	INJ YR	INDUSTRY	INIT DENIAL	1 ST DOS	MED @24M	
İ	CLAIM STAT	PREMIUM	DENIAL DT	ICD9		
T	CLAIM TYPE	LITFLG	METH OF RES	CPT4	1	

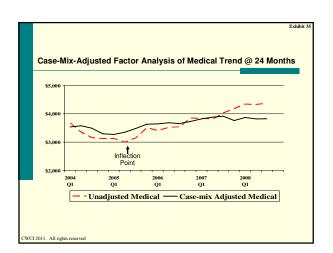


		Exhibit				
	Analysis of Medical Trend & Prevalence on Medical Cost					
Definition of Terms						
Model Output	Description					
Additional Medical Cost @ 24 Months (Beta, Full Model)	The average amount contributed to 24- month claim costs over the full study period.					
Slope (Beta Slope Model)	The average amount that this variable's quarterly contribution to 24-month claim costs increased over the study period.					
Prevalence Slope (Beta Prev Model)	The average amount that this variable's prevalence increased or decreased over the study period.					
Overall Impact						

Case-Mix-Adjusted Factor Analysis of Medical Trend Influence of Cost, Slope & Prevalence on Medical Cost **Examples of Employer Characteristics** Additional Med Cost @ 24 Months (Beta, Full Model) Slope (Beta Slope Model) Prevalence Slope (Beta Prev Model) Overall Impact on Trend Ψ Construction \$ 266 \$(28) -8.9% \$200 4.0% Agriculture \$(1) Prof and Clerical \$404 \$39 31.2% Aud Prem <\$1K \$206 \$(10) Aud Prem <\$500-999K \$(133) \$(11) -30.7%

Exhibit 3

Case-Mix-Adjusted Factor Analysis of Medical Trend Influence of Cost, Slope & Prevalence on Medical Cost

Examples of Claim Milestones

	Additional Med Cost @ 24 Months (Beta, Full Model)	Slope (Beta Slope Model)	Prevalence Slope (Beta Prev Model)	Overall Impact on Trend
Indemnity (non-litigated)	\$1,338	\$67	2.4%	^
Indemnity (litigated)	\$7,001	\$255	-2.6%	^
MPN	(\$159)	\$(22)	193.5%	Ψ
Inpatient Admission	\$15,951	\$470	-6.2%	^
Opioid Rx	\$1,840	\$30	14.5%	^
Psychotropic Rx	\$8,331	\$ 388	-2.7%	^

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Exhibit

Case-Mix-Adjusted Factor Analysis of Medical Trend Influence of Cost, Slope & Prevalence on Medical Cost

Examples of Co-morbidities and Secondary Conditions

	Additional Med Cost @ 24 Months (Beta, Full Model)	Slope (Beta Slope Model)	Prevalence Slope (Beta Prev Model)	Overall Impact on Trend
Substance Abuse	\$2,528	\$(87)	-2.1%	^
Mental Health	\$4,722	\$(80)	5.5%	^
Circulatory System	\$7,812	\$55	-0.3%	^
Obesity	\$1,787	\$163	10.3%	^
Metabolic & Endocrine	\$5,232	\$83	1.1%	^
Inflam & Degen	\$2,005	\$(92)	-13.4%	^

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